

098100Z JUL 70

FIG. 1A

NcoI 10 20 30 KT1 36MER (SEQ
 ID NO: 1)
 GAGCCATGGCCCTCCTCCACGAGTTCGGCCTTCTGG
 *** ||||| ||||| ||||| ||||| |||||
 m g L L H E F G L L E ... <--- upper case are
 WT aa
 278 280 282 284 286 288 <--- codon numbering for
 WT aa
 AGTTGGCAGCCCTCCTCCACGAGTTCGGCCTTCTGG ... (SEQ ID NO: 14)
 959 969 979 TaqPol.seq GenBank
 entry
 Accession No. J04639 (numbering includes 5' non-translated
 region)

FIG. 1B

```

---other strand-- KLENTAQ32 35mer (SEQ ID NO: 3)
HindIII
26 16 ***** 6
GGACTGGCTCTCCGCCAAGGAGTAGTAAGCTTCGC
|||||
D W L S A K E *
826 828 830 832
GGACTGGCTCTCCGCCAAGGAGTGATACCACC (SEQ ID NO: 15)
2604 2614 2624
TaqPol.seq

```

FIG. 2

10 20 30
 GAGCCATGGGCTCCTCCACGAGTTCGGCCTCTGG KT1 36MER (SEQ ID NO: 1)
 *** |||||
 m g L L H E F G L L E ... <-- upper case are
 WT aa
 278 280 282 284 286 288 <-- codon numbering for
 WT aa
 AGTTGGAAGCCTCCTCCACGAGTTCGGCCTCTGG Tfl.seq(SEQ ID NO: 16)
 GenBank
 1387 1397 1407 entry Accession number
 X66105
 region)
 (numbering includes 5' non-translated
 26 16 6
 GGACTGGCTCTCCGCCAAGGACTAGTAAGCTTCGC --other strand--
 |||||
 D W L S A K E * KLENTAQ32 35mer
 826 828 830
 GGACTGGCTCTCCGCCAAGGAGTAGGGGGTCTG Tfl.seq (SEQ ID NO: 17)
 3032 3042 3052

FIG. 3

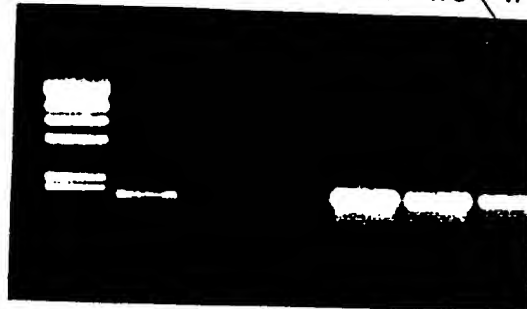
2 min. at indicated 99°, 98° or 97°, 10 min. 65° per cycle, 20 cycles.

AmpliTaq KlenTaq1
 99° .8 .4 .2 1/4 1/8 1/16 <-- ul per 100 ul reaction.



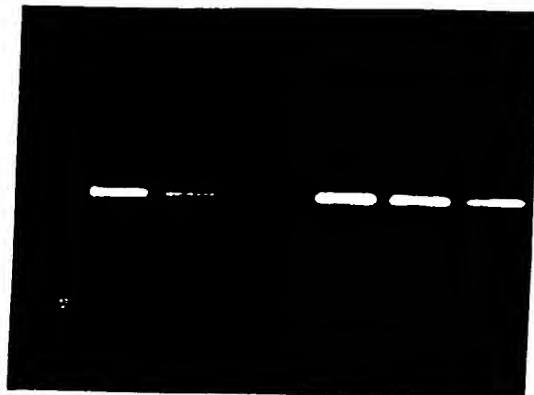
<-- 2 KB product size

AmpliTaq KlenTaq1
 98° .8 .4 .2 1/4 1/8 1/16 <-- ul per 100 ul reaction.



<-- 2 KB product size

AmpliTaq KlenTaq1
 97° .8 .4 .2 1/4 1/8 1/16 <-- ul per 100 ul reaction.

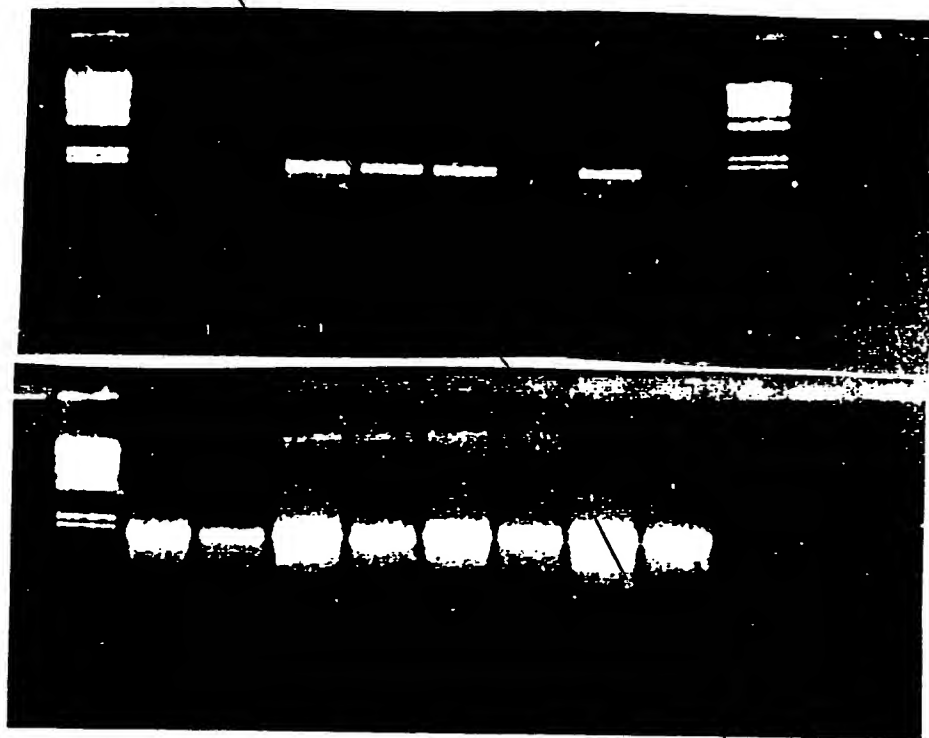


<-- 2 KB product size

FIG. 4

Top, figure 4A: 2 min. 98° C, 10 min. 65° C, 20 cycles
 Bottom, figure 4B: 2 min. 95° C, 10 min. 65° C, 20 cycles

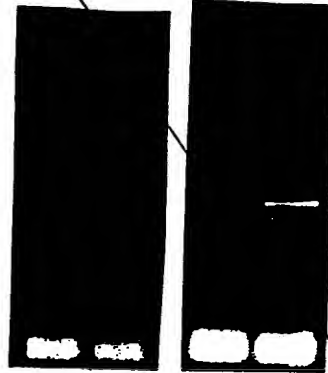
λH3	AT	KT-278	ST	KT-291	λH3
std					std
	3/4 3/8	1/4 1/8	3 1.5	1/4 1/8	



FOUFOF" 200T8660

FIG. 5

PCR peak 2:	95°	98°
Pretreatment:	100° none	100° none
Lane:	1 2	3 4



117
~~6/8~~



1A
FIG. 6A

09981002.103701

72° 20 cycles of 2 min. 94°, 2 min. 60°, 7 min.

ul of KlenTaq-278	1	1	1	1	0	2	2	2	2	0
λH3										
ul of Pfu DNA Pol	1/2	1/4	1/8	0	1/2	1/2	1/4	1/8	0	1

6.6 KB -->



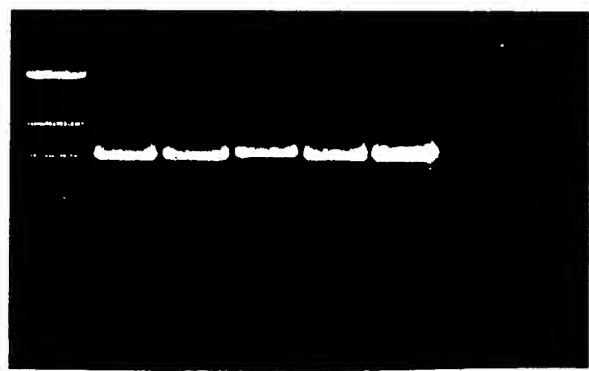
New Art	Prior Art	New Art	Prior Art
---------	-----------	---------	-----------

2/7
7/8

1B
FIG. 6B

20 cycles of 2 min. 94°, 2 min. 60°, 10 min. 72°

ul of KlenTaq-278	1	1	1	1	1	1	0
ul of Pfu DNA Pol	1/2	1/4	1/8	1/16	1/32	0	1/2

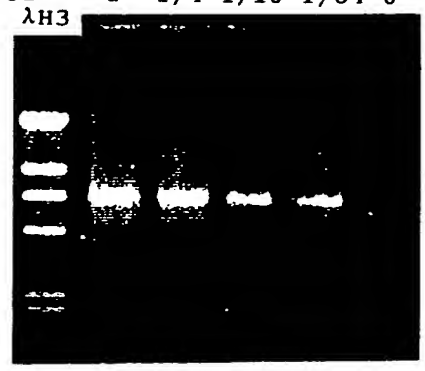


<--6.6KB

1C
FIG. 6C

20 cycles of 2 min. 95°, 1 min. 60°, 30 min. 72°

ul of KlenTaq-278	1	1	1	1	1
ul of Pfu DNA Pol	1	1/4	1/16	1/64	0



<--6.6KB

FOOTNOTES

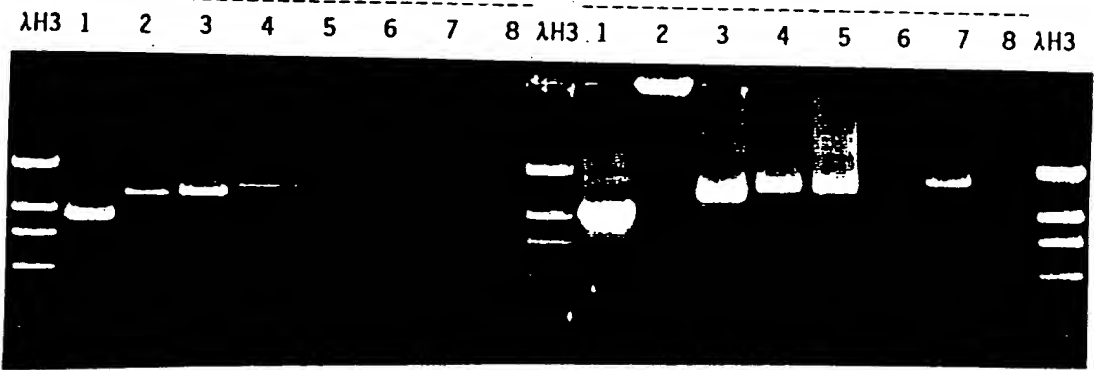
3/7
8/8

2
FIG. 7

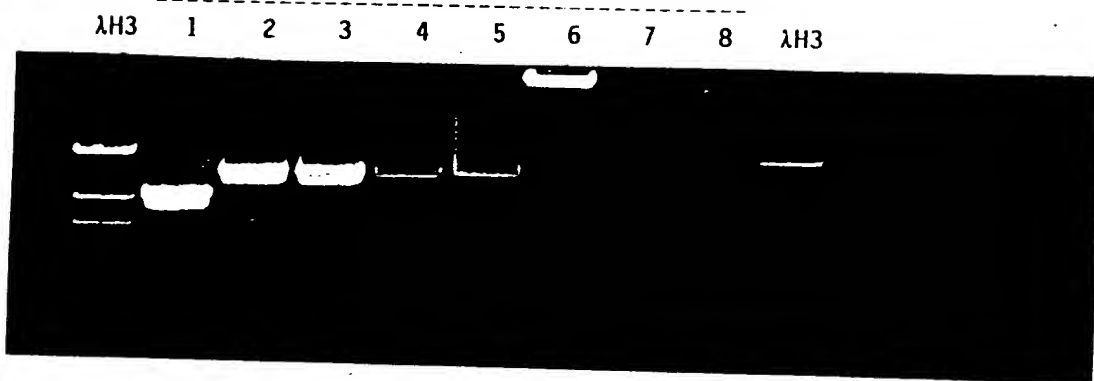
Channel:	1	2	3	4	5	6	7	8
Template DNA:	λ plac5	λ pcytI	λ pcytI	λ plac5	λ plac5	λ K138	λ K138	λ K138
ng of template:	1	1	10	1	10	1	10	10
primer 1 SEQ ID NO:	9	7	7	10	10	7	7	9
primer 2 SEQ ID NO:	8	8	8	8	8	8	8	8
Size of PCR product								
Expected, in kb:	8.4	12.5	12.5	15	15	18	18	19.7

Conditions A

Conditions B



Conditions C



0991002-10101